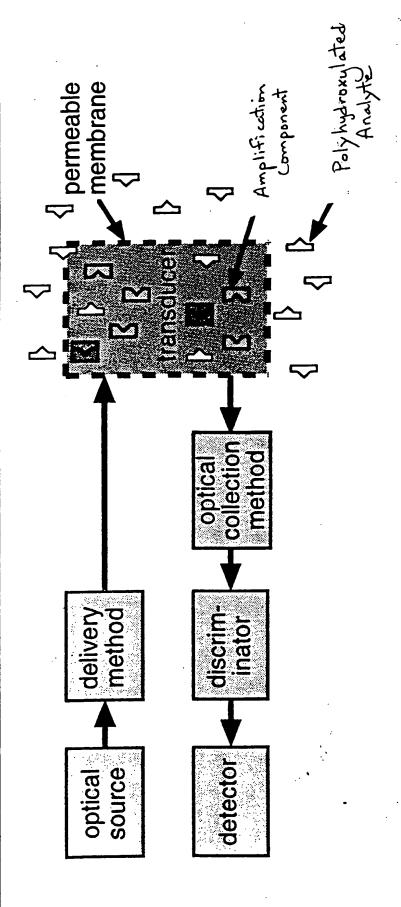


Chemically-amplified optical sensors



Amplify with components have a high selectivity for the target analyte to be assayed

Reactions with the target ممماهرك produce a large change in the optical properties of the amplification component

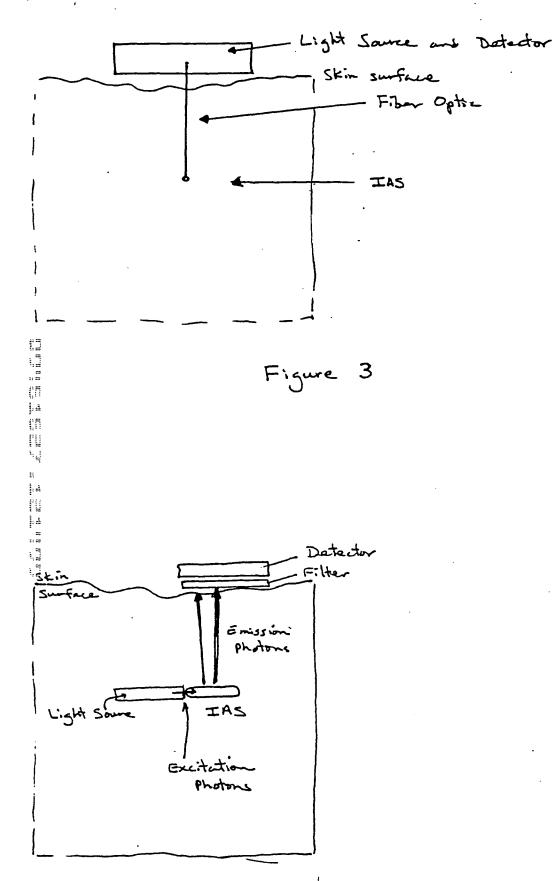


Figure 4

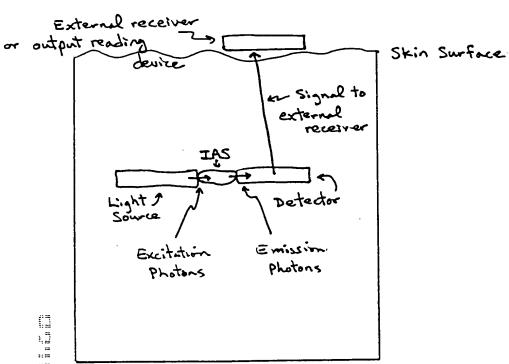
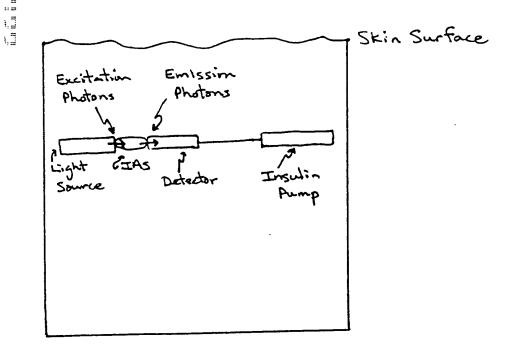


Figure 6



-- Glucose to Hydrogen Peroxide Conversion Followed by Optical Detection

$$H_2O_2 + 2$$

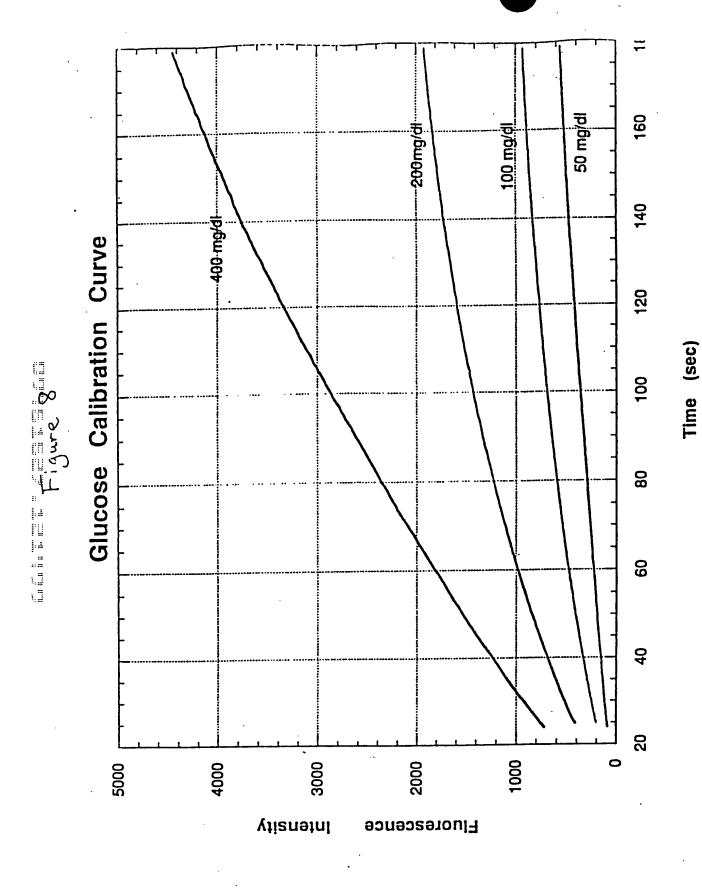
HRP

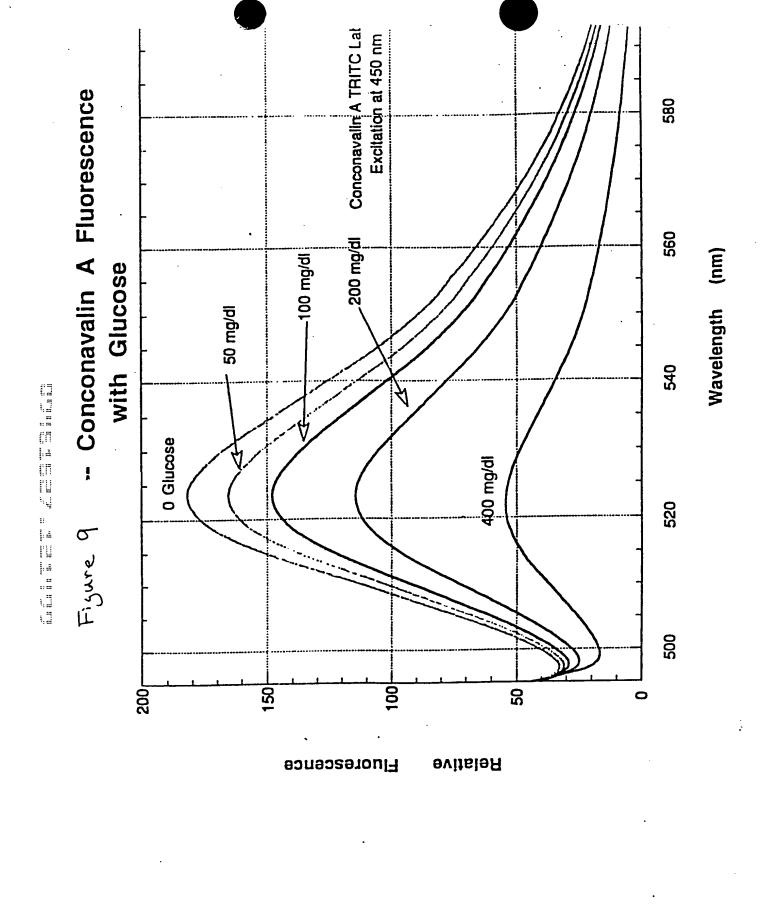
HRP

COOH

COOH

COOH





Reversible Boronate Binding Chemistry

glucose recognizing molecules that fluoresce at longer

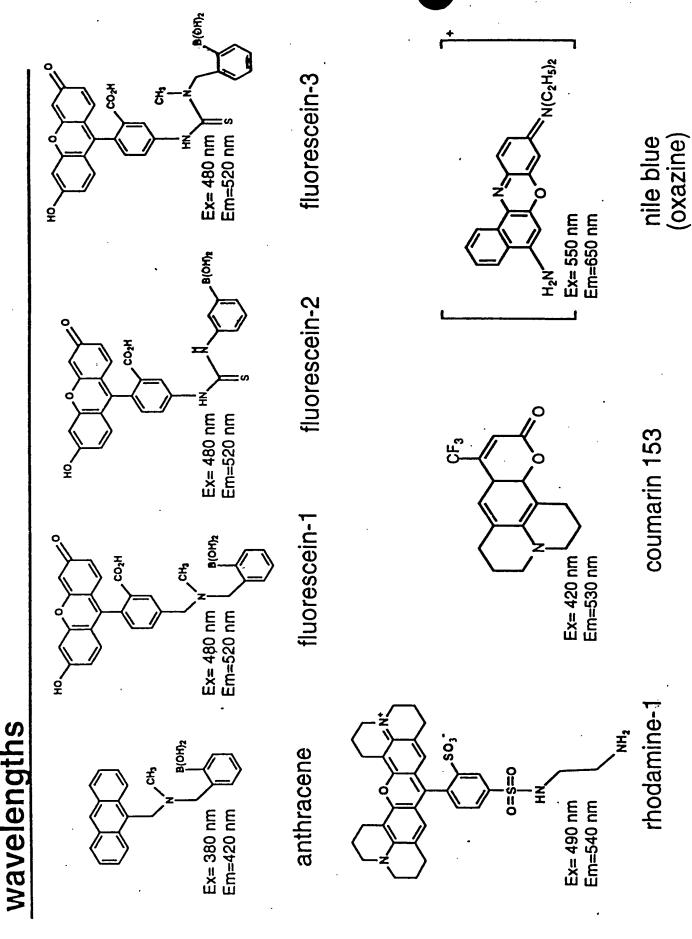
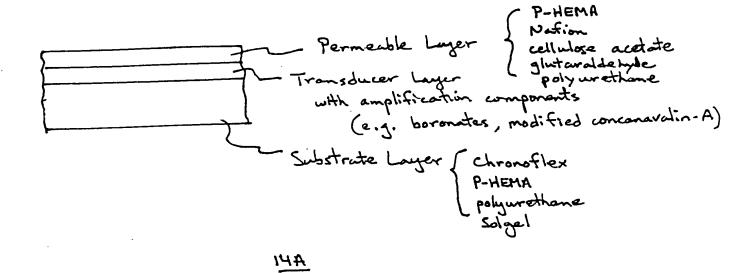
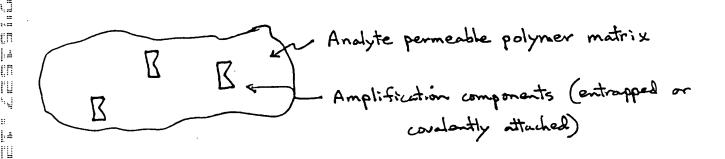


Figure 12

11





Analyte permeable polymer matrix

Outer hydrogel coating

Amplification components

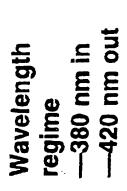
<u>14</u> C

14 B

THE RESERVE THE PERSON OF THE

Reversible fluoresent of aglucose recognizing fluorescent molecule, anthracene-boronate

the relevant clinical range (0-400 mg/dl)



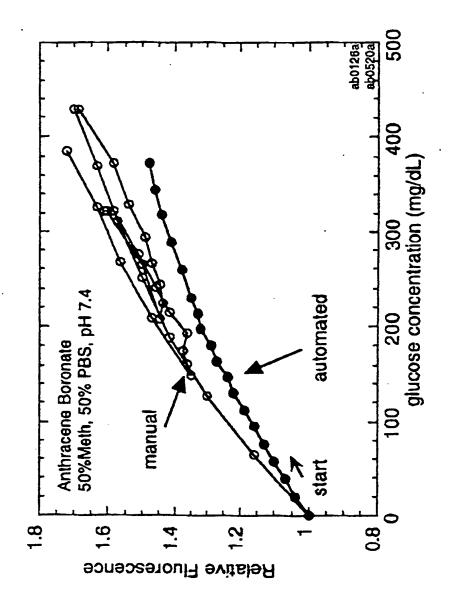


Figure 16